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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,149	08/01/2006	Takaaki Sato	L9289.06175	5049
52989 Dickinson Wri	7590 04/27/200 oht PLLC	EXAMINER		
James E. Ledbetter, Esq. International Square 1875 Eye Street, N.W., Suite 1200			PATHAK, SUDHANSHU C	
			ART UNIT	PAPER NUMBER
Washington, DC 20006		2611		•
			MAIL DATE	DELIVERY MODE
			04/27/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/588,149	SATO, TAKAAKI	
Examiner	Art Unit	
SUDHANSHU C. PATHAK	2611	

	SUDHANSHU C. PATHAK	2611				
The MAILING DATE of this communication appe Period for Reply	ears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1:19 after SIX (6) MCVR115 from the mailing date of this communication. 14 Failur to reply within the set or extended period for ruply will by statute. Any reply received by the Cffice later than these months after the mailing-aemed plantet term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tin ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 01 Au	gust 2006.					
2a) This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 7-12 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>7-12</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner						
10)⊠ The drawing(s) filed on <u>01 August 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction	on is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
 Certified copies of the priority documents 						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/S6/08)	5). Notice of Informal F					
Paner No(s)/Mail Date 08/01/2006	6) ☐ Other: .					

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DETAILED ACTION

- 1. Claims 7-12 are pending in the application.
- Claims 1-6 have been canceled in Preliminary Amendment dated 08/01/2006.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 7-11 (apparatus) & 12 (method) are rejected under 35 U.S.C. 103(a) as being unpatentable over Kiema et al. (5,684,793).

In regards to Claims 7, 10-12, Kiema discloses a CDMA radio receiving apparatus in a base station (Fig.'s 1-2) comprising: a plurality of RAKE fingers (Fig. 1, elements 11a-c, 12a-c, 13a-c & Column 2, lines 29-35 & Fig. 2, element 20); and a controlling section that controls a number of RAKE fingers to be used for channel reception among the plurality of RAKE fingers based on signal quality (channel conditions) (Fig. 2, elements 21, 25 & Column 3, lines 35-67 & Column 4, lines 1-15, 55-67 & Column 5, lines 1-11 & Claim 1), wherein: the controlling section allocates a larger number of RAKE fingers to a channel having a smaller BER or SNR (signal quality), and a smaller number of RAKE fingers to a channel having a greater BER or SNR (signal quality) (Column 3, lines 1-15, 35-65 & Column 4, lines 1-15, 35-67 & Column 5, lines 1-10 & Claim 1). However, Kiema does not explicitly disclose controlling the number of RAKE fingers based on spreading factor of the channel.

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However, it would have been obvious to one of ordinary skill in the art at the time of the invention that the spreading factor is a parameter determining the channel quality and there is no criticality in selecting this parameter over BER or SNR this is a matter of design choice.

In regards to Claims 8-9, Kiema discloses a radio receiving apparatus as described above. Kiema further discloses controlling section controls the number of RAKE fingers to be used for channel reception based on the spreading factor of the channel at the start of channel reception (Column 4, lines 7-15), and controls the number of RAKE fingers to be used for channel reception based on reception quality of the channel during channel reception (Column 4, lines 15-30, 35-55). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention that Kiema satisfies the limitation of the claim. Furthermore, it would have been obvious to one of ordinary skill in the art at the time of the invention that there is no criticality in selecting the RAKE fingers based on the change rate of reception quality this is a matter of design choice.

Conclusion

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- Any inquiry concerning this communication or earlier communications from the examiner should be directed to SUDHANSHU C. PATHAK whose telephone number is (571)272-5509. The examiner can normally be reached on 9am-5pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh M. Fan can be reached on 571-272-3042.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sudhanshu C Pathak/ Primary Examiner, Art Unit 2611